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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,632		08/28/2000	Takayuki Yabu	001092	5763
23850	7590	06/16/2003			
	-	VESTERMAN &	EXAMINER		
1725 K STREET, NW SUITE 1000				JACKSON, CORNELIUS H	
WASHIN	WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
				2828	
				DATE MAILED: 06/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A A					
	Appli ation No.	Applicant(s)					
Offic Action Commons	09/648,632	YABU, ET AL.					
Offic Action Summary	Examiner	Art Unit					
	Cornelius H. Jackson	2828					
The MAILING DATE of this communication app Period for Reply	lears on the cover she it with th	ne correspondenc address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS, cause the application to become ABAND	ne timely filed days will be considered timely, from the mailing date of this communication. ONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 19 /	<u> March 2003</u> .						
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applicat							
4a) Of the above claim(s) is/are withdraw	wn from consideration.	0					
5) Claim(s) is/are allowed.		Paul Sp					
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.		PAUL IP					
7) Claim(s) is/are objected to.		JPERVISORY PATENT EXAMINER					
8) Claim(s) are subject to restriction and/or	r election requirement.	TECHNOLOGY CENTER 2800					
Application Papers	_						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:	. ,						
1.☐ Certified copies of the priority document	s have been received.						
2. Certified copies of the priority document		cation No					
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).						
 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)		(TTO (10) P					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Infor	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152)					
C. Datant and Trademark Office							

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DETAILED ACTION

Acknowledgment

1. Acknowledgment is made that applicant's Amendment, filed on 19 March 2003, has been entered. Upon entrance of the Amendment, claims 1 and 2 were amended. Claims 1 and 2 are now pending in the current application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itakura (JP 1-268078 A) [Applicant's prior art]. Itakura teaches a discharge electrode connecting structure for a laser apparatus Figs. 6-7 comprising a pair of anode 105A and cathode 105B provided within a laser chamber 102 for sealing a laser gas in an opposing manner, generating a discharge so as to excite a laser gas flowing there between and oscillating a laser beam; a conductive anode base 106 holding the anode; an insulative cathode base 108 holding the cathode; a return plate 109 electrically connecting the anode base to the laser chamber so as to supply a current to the anode, as stated in Applicant's specification, page 1, paragraph 3 through page 3, line 5; and a high voltage power source supplying a high frequency current between the anode and the cathode, as stated in Applicant's specification, page 2, lines 5-11. Itakura

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fails to teach the thickness from 100 to 500 μm for the anode base. As for the thickness of the return plate, it is well known that making the return plate too thin it vibrates due to the gas flow, as stated in Applicant's specification, page 3, line 14-17. It has been held that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Regarding claim 2, Itakura teaches the return plate is arranged substantially in parallel to a gas flow of the laser gas flowing between the discharge electrode, see specification, page 2, lines 20-26.

Response to Arguments

4. Applicant's arguments filed 02 October 2002 have been fully considered but they are not persuasive. As for the amendment of the return plate being thicker than double the entering depth of the high frequency current, this is an inherent property of the return plate since the current only travels along an outside region of the return plate and never touching in the central portion of the return plate. Therefore, because the current travels along the outer edges (top and bottom) of the return plate, the thickness of the return plate has to be more than double the thickness of the current.

Conclusion

5. As explained during the interview, on 13 March 2003, structurally, there is no difference/distinction between the art of record and Applicant invention, as claimed.

Applicant is advised to amend claims 1 and 2 in view of Figures 1-3 of the invention to provide a particular structural difference over the art of record.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (703) 306-5981. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7722 for regular communications and (703)308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

PAUL IP

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

June 13, 2003